

In the Claims

1. (currently amended) Apparatus for obtaining an image of a specimen by optical projection tomography, the apparatus comprising light scanning means, a rotary stage for rotating the specimen to be imaged, an optical system and a localized light detector, wherein light from the scanning means scans the specimen and the optical system is operative to direct onto only the localized light detector [[,]] throughout scanning movement of the light, ~~to direct onto the detector only that~~ light which exits or by-passes the specimen parallel to a beam incident on the specimen, thereby to allow a higher signal-to-noise ratio by limiting detection of scattered light at the localized light detector.
2. (previously presented) Apparatus according to claim 1, wherein the optical system is constituted by a convex lens which causes convergence of light incident thereon and directs onto the detector the light which exits or by-passes the specimen parallel to the beam incident on the specimen.
3. (cancelled)
4. (previously presented) Apparatus according to claim 1, wherein the localized detector is one detector of a linear array of detectors, the other detectors of the array constituting auxiliary detectors which detect scattered and/or refracted light.
5. (previously presented) Apparatus according to claim 1, wherein the localized detector is one detector of a two-dimensional array of detectors, the other detectors of the array constituting auxiliary detectors which detect scattered and/or refracted light.
6. (previously presented) Apparatus according to claim 1, wherein the rotary stage rotates the specimen to indexed positions in each of which the specimen is in use subjected to a scanning movement of incident light by the scanning means.

7. (original) Apparatus according to claim 6, wherein the scanning means is operative to scan the light in a raster pattern, one complete raster scan being undertaken at each indexed position of the specimen.
8. (previously presented) Apparatus according to claim 1, wherein the light scanning means is part of a confocal scanning microscope.
9. (previously presented) An optical system for use in apparatus for obtaining an image in optical projection tomography, the optical system receiving light from a specimen scanned by a light beam and being operative to direct onto a detector only light which exits or bypasses the specimen parallel to a beam incident on the specimen.
- 10-12. (cancelled)